

TABLES

TABLE 1

EAST PARCEL ANALYTICAL REQUIREMENTS AND SAMPLING STRATEGY

Former Rhone-Poulenc East Marginal Way Facility
Tukwila, Washington

Area of Interest	Surface 1			Surface 2		
	Depth	Sample ID	Analytes	Depth	Sample ID	Analytes
Former Maintenance Area	0.5 to 1.5	MAINT-1-	As, Cu, Hg	7.0 to 8.0	MAINT-2-	cPAHs
Laboratory Area	0.5 to 1.5	LAB-1-	As, Cu, Hg	2.5 to 3.5	LAB-2-	cPAHs
Former Compressor Area	1.5 to 2.5	COMP-1-	PCBs, As, Cu, Hg	7.0 to 8.0	COMP-2-	PCBs
Former Sulfuric Acid Tanks Solids Disposal Area	0.5 to 1.5	SULF-1-	pH, Ag, As, Ba, Cd, Cr, Cu, Hg, Pb, Se	--	--	--
Former Pilot Plant Waste Disposal Area	1.0 to 2.0	PILOT-1-	cPAHs	7.0 to 8.0	PILOT-2-	cPAHs
Background 1	1.0 to 2.0	BACK1-1-	cPAHs, Cu	--	--	--
Background 2 (RR)	1.0 to 2.0	BACK2-1-	cPAHs, Cu	--	--	--

Notes:

Depths are in feet below ground surface (bgs).

Metals analyzed by EPA Method 6000/7000; mercury analyzed by EPA Method 7010.

pH analyzed using EPA Method 9045B.

Ag = silver

As = arsenic

Ba = barium

Cd = cadmium

Cr = chromium

Cu = copper

Hg = mercury analyzed by EPA Method 7010.

Pb = lead

pH = potential hyrdrogen

Se = selenium

cPAHs = carcinogenic poliaromatic hydrocarbons analyzed using EPA Method 8270C.

PCBs = polychlorinated biphenyls analyzed using EPA Method 8082.

RR = railroad

TABLE 2

EAST PARCEL COMPOSITE SAMPLE ANALYTICAL RESULTS

Former Rhone-Poulenc East Marginal Way Facility
Tukwila, Washington

Area of Investigation	Sample ID	Depth (feet)	cPAHs (mg/kg) ²	Total PCBs (mg/kg)	pH	Metals (mg/kg)							
						Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Selenium
	Interim Cleanup Levels ¹	0.1	1	--	20	--	2	19/2,000 ³	36.4	250	2	--	--
Background 1	BACK1-1	1.0 to 2.0	0.02549 J							15.7			
	BACK1-1 (dup)	1.0 to 2.0	0.02839 J										
Background 2 (RR)	BACK2-1	1.0 to 2.0	0.0983 J						24.8 J				
Former Compressor Area	COMP-1	1.5 to 2.5		7.4		2.82				257		0.415	
	COMP-1 (dup)	1.5 to 2.5		6.9									
	COMP-2	7.0 to 8.0		<0.17 U									
Former Maintenance Area	MAINT-1	0.5 to 1.5				4.76				110		0.450	
	MAINT-1 (dup)	0.5 to 1.5				4.56				106		0.427	
	MAINT-2	7.0 to 8.0	0.001761 J										
Former Pilot Plant Waste Disposal Area	PILOT-1	1.0 to 2.0	0.005782 J										
	PILOT-2	7.0 to 8.0	0.001865 J										
Former Sulfuric Acid Tanks Solids Disposal Area	SULF-1	0.5 to 1.5			7.74 J	2.53	33.5	0.08	10.7	41.5	6.52	0.055	0.3 J
Laboratory Area	LAB-1	0.5 to 1.5				4.9				40.3		0.043	
	LAB-2	2.5 to 3.5	0.0155 J										

Notes:

1. Interim cleanup levels represent EPA proposed preliminary remedial goals, or PRGs for the East Parcel for arsenic, cPAHs as Benzo(a)pyrene equivalents, copper, and PCBs. Interim cleanup levels for benzene, xylenes, ethyl benzene, cadmium, chromium (trivalent and hexavalent chromium), and lead are based on MTCA Method A residential soil cleanup levels.
2. cPAHs = carcinogenic polycyclic aromatic hydrocarbons, expressed as benzo(a)pyrene equivalent.
3. Chromium VI cleanup level is 19 mg/kg; Chromium III cleanup level is 2,000 mg/kg. This investigation assumes chromium is present as Chromium III.

BACK1-1 B(a)P = (17*1.0)+(12*.1)+(22*.1)+(18*.1)+(25*.01)+(3.1*.4)+(18*.1)= 25.49, less than 100 CL.

BACK1-1 DUP B(a)P = (19*1.0)+(14*.1)+(24*.1)+(19*.1)+(29*.01)+(3.5*.4)+(20*.1)= 28.39, less than 100 CL.

BACK2-1 B(a)P = (65*1.0)+(51*.1)+(87*.1)+(74*.1)+(120*.01)+(12*.4)+(61*.1)= 98.3, less than 100 CL

MAINT-2 B(a)P = (1.2*1.0)+(0.83*.1)+(1.3*.1)+(0.97*.1)+(1.7*.01)+(0.26*.4)+(1.3*.1)= 1.761 , less than 100 CL

PILOT-1 B(a)P = (3.9*1.0)+(3.6*.1)+(4.4*.1)+(3.5*.1)+(6.6*.01)+(0.74*.4)+(3.7*.1)= 5.782, less than 100 CL

PILOT-2 B(a)P = (1.2*1.0)+(0.85*.1)+(1.6*.1)+(1.1*.1)+(2.4*.01)+(0.34*.4)+(1.5*.1)= 1.865 , less than 100 CL

LAB-2 B(a)P = (11*1.0)+(8.4*.1)+(11*.1)+(8.6*.1)+(15*.01)+(1.5*.4)+(9.5*.1)= 15.5 , less than 100 CL

Bold results exceed cleanup level.

PCBs = polychlorinated biphenyls

U = The compound was analyzed for, but was not detected ("non-detect") at or above the MRL/MDL.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

TABLE 3

EAST PARCEL DISCRETE SAMPLE ANALYTICAL RESULTS

Former Rhone-Poulenc East Marginal Way Facility

Tukwila, Washington



Area of Investigation	Sample ID	Depth (feet)	GRO - NWTPH	DRO - NWTPH	RRO - NWTPH	PCBs (mg/kg)	VOCs (mg/kg)							Metals (mg/kg)										
			(mg/kg)	(mg/kg)	(mg/kg)		Isopropyl-benzene	Naphthalene	n-Butyl-benzene	n-Propyl-benzene	sec-Butyl-benzene	Styrene	tert-Butyl-benzene	Toluene	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Selenium	Silver	
		Interim Cleanup Level ¹	100/30	2,000	2,000	1	--	5	--	--	--	--	--	0.83	20	--	2	19/2,000 ²	36.4	250	2	--	--	
Former Compressor Area	COMP-1-31W	2.0 to 3.0	280 ³	6,300 ⁴	420 ⁵		0.072 J	0.25	1.4	0.18 J	0.72	0.016 J	0.033 J	0.047 J										
	COMP-2-21W	7.0 to 8.0					<150 U	<150 U	<150 U	<150 U	<150 U	8.5 J	<150 U	14,000			<10 U	19.9	<0.5 U	23	134	9	0.07	<10 U
	COMP-1-28M	2.0 to 3.0					0.2 J																	
	COMP-1-3A	1.5 to 2.5					<0.054 UJ																	
	COMP-1-7A	1.5 to 2.5					0.0075 J																	
	COMP-1-10A	1.5 to 2.5					<0.059 UJ																	
	COMP-1-15A	1.5 to 2.5					0.84 J																	
	COMP-1-18A	1.5 to 2.5					1.6 J																	
	COMP-1-21A	1.5 to 2.5					<0.060 UJ																	
	COMP-1-24A	1.5 to 2.5					<0.057 UJ																	
	COMP-1-26A	1.5 to 2.5					0.044 J																	
	COMP-1-27A	1.5 to 2.5					0.46 J																	
	COMP-1-29A	1.5 to 2.5					0.12 J																	
Former Maintenance Area	MAINT-1-3A	0.5 to 1.5																	296 J					
	MAINT-1-14A	0.5 to 1.5																	194 J					
	MAINT-1-16A	0.5 to 1.5																	122 J					
	MAINT-1-25A	0.5 to 1.5																	16.7 J					
	MAINT-1-29A	0.5 to 1.5																	116 J					
	MAINT-1-10A	0.5 to 1.5																	484					
	MAINT-1-20A	0.5 to 1.5																	64.9					
	MAINT-1-22A	0.5 to 1.5																	226					
	MAINT-1-33A	0.5 to 1.5																	21.4					
	MAINT-1-34A	0.5 to 1.5																	111					
	MAINT-1-7A	0.5 to 1.5																	114					
Former Sulfuric Acid Tanks Solids Disposal Area	SULF-1-3A	0.5 to 1.5																	55.7 J					
	SULF-1-7A	0.5 to 1.5																	50.5 J					
	SULF-1-10A	0.5 to 1.5																	23.8 J					
	SULF-1-15A	0.5 to 1.5																	19.1 J					
	SULF-1-18A	0.5 to 1.5																	15.2 J					
	SULF-1-19A	0.5 to 1.5																	10.4 J					
	SULF-1-22A	0.5 to 1.5																	27.5 J					
	SULF-1-24A	0.5 to 1.5																	106 J					
	SULF-1-26A	0.5 to 1.5																	9.88 J					
	SULF-1-29A	0.5 to 1.5																	12.4 J					
	SULF-1-33A	0.5 to 1.5																	411 J					
Laboratory Area	LAB-1-10A	0.5 to 1.5																	26.9					
	LAB-1-12A	0.5 to 1.5																	27.4					
	LAB-1-15A	0.5 to 1.5																	34.6					
	LAB-1-18A	0.5 to 1.5																	27.9					
	LAB-1-21A	0.5 to 1.5																	397					
	LAB-1-24A	0.5 to 1.5																	74.8					
	LAB-1-26A	0.5 to 1.5																	18.9					
	LAB-1-29A	0.5 to 1.5																	114					
	LAB-1-33A	0.5 to 1.5																	11.5					
	LAB-1-3A	0.5 to 1.5																	47.1					
	LAB-1-7A	0.5 to 1.5																	15.4					

TABLE 3

EAST PARCEL DISCRETE SAMPLE ANALYTICAL RESULTS
 Former Rhone-Poulenc East Marginal Way Facility
 Tukwila, Washington

Notes:

1. Interim cleanup levels represent EPA proposed preliminary remedial goals, or PRGs for the East Parcel for arsenic, cPAHs as Benzo(a)pyrene equivalents, copper, and PCBs.
- Interim cleanup levels for benzene, cadmium, chromium (trivalent and hexavalent chromium), lead, naphthalene, TPH-DRO, TPH-RRO, and TPH-GRO are based on MTCA Method A residential soil cleanup levels.
- Interim cleanup levels for toluene are for toluene was developed in general accordance with MTCA Method B cleanup level protocols to ensure that the soil cleanup criterion was protective of groundwater.
2. Chromium VI cleanup level is 19 mg/kg; Chromium III cleanup level is 2,000 mg/kg. This investigation assumes chromium is present as Chromium III.
3. The gasoline result has a chromatographic fingerprint that resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
4. The diesel result chromatographic fingerprint resembles a petroleum product but the elution pattern does not match the calibration standard.
5. The residual range result resembles an oil, but does not match the calibration standard.

Bold results exceed cleanup level.

GRO - NWTPH = gasoline range organics, northwest total petroleum hydrocarbons method

DRO - NWTPH = diesel range organics, northwest total petroleum hydrocarbons method

RRO - NWTPH = residual range organics, northwest total petroleum hydrocarbons method

PCBs = polychlorinated biphenyls

VOCs = volatile organic compounds (only detected VOCs are shown on this table)

U = The compound was analyzed for, but was not detected ("non-detect") at or above the MRL/MDL.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

All PCB results were analyzed outside of hold time and are qualified as estimated (J).

mg/kg = milligrams per kilogram

TABLE 4

EAST PARCEL COMPOSITE CONFIRMATION SAMPLE ANALYTICAL RESULTS
 Former Rhone-Poulenc East Marginal Way Facility
 Tukwila, Washington

Area of Investigation	Sample ID	Collection Date	Depth (feet)	Total PCBs (mg/kg)	Copper (mg/kg)
Interim Cleanup Level ¹				1	36.4
Former Compressor Area	COMP-4	8/10/2006	3.0	0.26 J	54.9
	COMP-4 (dup)	8/10/2006	3.0	0.30 J	NA
	COMP-5	8/17/2006	4 to 5.5	NA	25.8
Former Maintenance Area	MAINT-4	8/9/2006	2.0 to 3.0	NA	74.6
	MAINT-4 (dup)	8/9/2006	2.0 to 3.0	NA	76.6
	MAINT-5	8/19/2006	2.0 to 4.0	NA	36.3
Former Sulfuric Acid Tanks Solids	SULF-4	8/10/2006	2.0 to 3.0	NA	17.1
Laboratory Area	LAB-4	8/9/2006	2.0 to 3.0	NA	33.3

		Total PCBs (mg/L)	Copper (mg/L)
Equipment Blank	ER-1	--	<0.00042 U

Notes:

1. Interim cleanup levels represent EPA proposed preliminary remedial goals, or PRGs for the East Parcel for copper, and PCBs.
Bold results exceed cleanup level.

 shaded cells indicate that the samples exceeded the interim cleanup level so additional soil was excavated.

PCBs = polychlorinated biphenyls

U = The compound was analyzed for, but was not detected ("non-detect") at or above the reporting limit.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

TABLE 5

EAST PARCEL DISCRETE CONFIRMATION SAMPLE ANALYTICAL RESULTS

Former Rhone-Poulenc East Marginal Way Facility
Tukwila, Washington



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Area of Investigation	Sample Location	Sample ID	Matrix	Depth (feet)	GRO - NWTPh (mg/kg)	DRO - NWTPh (mg/kg)	RRO - NWTPh (mg/kg)	PCBs (mg/kg)	VOCs (mg/kg)				
									Benzene	Toluene	Ethylbenzene	Xylene	
		Interim Cleanup Level		100/30	2,000	2,000	1	0.03	0.83	--	--	36.4	
Former Compressor Area - Deep Excavation	North Wall	FRP080906 N1	Soil	4.0	<9.5 U	<32 U	<63 U	<0.063 U	<0.024 U	0.19	<0.024 U	<0.072 U	NA
		FRP080906 N2	Soil	11.0	<8.6 U	<33 U	<67 U	<0.067 U	<0.021 U	0.098	<0.021 U	<0.064 U	NA
	South Wall	FRP080706 S1	Soil	8.0	<7.4 U	<33 U	<67 U	<0.061 U	<0.037 U	<0.037 U	<0.037 U	<0.150 U	NA
		FRP080706 W1	Soil	7.0	<9.5 U	<33 U	<67 U	<0.067 U	NA	NA	NA	NA	NA
	West Wall	FRP080806 W1	Soil	6.0	NA	NA	NA	<0.023 U	<0.023 U	<0.023 U	<0.023 U	<0.069 U	NA
		FRP080706 W2	Soil	6.0	<8.8 U	<32 U	<63 U	<0.063 U	NA	NA	NA	NA	NA
		FRP080806 W2	Soil	7.0	NA	NA	NA	<0.023 U	<0.023 U	<0.023 U	<0.023 U	<0.069 U	NA
		FRP080706 E1	Soil	8.0	<7.8 U	<32 U	<63 U	<0.063 U	<0.039 U	0.054	<0.039 U	<0.160 U	NA
	East Wall	FRP080706 E2	Soil	8.0	<8.4 U	<31 U	<62 U	<0.062 U	NA	NA	NA	NA	NA
		FRP080806 E2	Soil	6.0	NA	NA	NA	<0.031 U	<0.031 U	<0.031 U	<0.031 U	<0.092 U	NA
		FRP080706 E3	Soil	7.0	<8.2 U	<29 U	<59 U	<0.059 U	<0.041 U	<0.041 U	<0.041 U	<0.160 U	NA
		FRP080706 E4	Soil	8.0	<8.0 U	<31 U	<63 U	<0.063 U	<0.040 U	<0.040 U	<0.040 U	<0.160 U	NA
		FRP080906 B1	Soil	10.0	<8.3 U	<33 U	<67 U	<0.067 U	0.028	0.200	0.044	0.219	NA
	Base	FRP080906 B2	Soil	11.0	<8.0 U	<35 U	<70 U	<0.070 U	<0.020 U	0.045	<0.020 U	0.040	NA
		FRP080906 B3	Soil	13.0	<8.6 U	<33 U	<67 U	<0.067 U	0.030	<0.022 U	<0.022 U	<0.065 U	NA
		FRP080906 B4	Soil	15.0	<8.6 U	<35 U	<69 U	<0.069 U	0.054	<0.022 U	<0.022 U	<0.065 U	NA
		FRP081506 B5	Soil	16.0	NA	NA	NA	<0.020 U	0.070	<0.020 U	<0.060 U	NA	NA
		FRP081506 B5A (field duplicate)	Soil	16.0	NA	NA	NA	<0.020 U	0.220	<0.020 U	<0.060 U	NA	NA
Former Maintenance Building and Storage Area - Shallow Excavation	MAINT-4-1A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	46.9
	MAINT-4-2A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	61.5
	MAINT-4-3A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	42.4
	MAINT-4-4A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	26.8
	MAINT-4-5A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	69.2
	MAINT-4-6A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.3
	MAINT-4-7A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	17.7
	MAINT-4-8A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.0
	MAINT-4-9A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	95.6
	MAINT-4-10A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.1
	MAINT-4-11A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.2
	MAINT-4-12A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	244
	MAINT-4-13A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	168
	MAINT-4-14A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	202
	MAINT-4-15A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.0
	MAINT-4-16A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	62.6
	MAINT-4-17A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	81.5

TABLE 5

EAST PARCEL DISCRETE CONFIRMATION SAMPLE ANALYTICAL RESULTS

Former Rhone-Poulenc East Marginal Way Facility

Tukwila, Washington

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Area of Investigation	Sample Location	Sample ID	Matrix	Depth (feet)	GRO - NWTPH (mg/kg)	DRO - NWTPH (mg/kg)	RRO - NWTPH (mg/kg)	PCBs (mg/kg)	VOCs (mg/kg)			
									Benzene	Toluene	Ethylbenzene	Xylene
		Interim Cleanup Level ¹		100/30	2,000	2,000	1	0.03	0.83	--	--	36.4
Former Maintenance Building and Storage Area - Shallow Excavation (Continued)		MAINT-4-18A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	11.2
		MAINT-4-19A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	55.0
		MAINT-4-20A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	86.6
		MAINT-4-21A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	60.1
		MAINT-4-22A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	96.0
		MAINT-4-23A	Soil	3.0	NA	NA	NA	NA	NA	NA	NA	31.9
		MAINT-4-24A	Soil	3.0	NA	NA	NA	NA	NA	NA	NA	22.0
		MAINT-4-25A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	120
		MAINT-4-26A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	29.3
		MAINT-4-27A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	124
		MAINT-4-28A	Soil	2.5	NA	NA	NA	NA	NA	NA	NA	32.5
		MAINT-4-29A	Soil	2.5	NA	NA	NA	NA	NA	NA	NA	20.7
		MAINT-4-30A	Soil	3.0	NA	NA	NA	NA	NA	NA	NA	19.4
		MAINT-4-31A	Soil	2.5	NA	NA	NA	NA	NA	NA	NA	65.1
		MAINT-4-32A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	18.4
		MAINT-4-33A	Soil	2.0	NA	NA	NA	NA	NA	NA	NA	44.0
		MAINT-4-34A	Soil	3.0	NA	NA	NA	NA	NA	NA	NA	7.94
		MAINT-4-35A	Soil	3.0	NA	NA	NA	NA	NA	NA	NA	299
Former Maintenance Building and Storage Area - Deep Excavation	North Wall	RP082806-N1	Soil	8.0	NA	NA	NA	0.036	81	<0.070 U	<0.140 U	NA
		RP082806-N2	Soil	8.0	NA	NA	NA	0.045	0.23	<0.074 U	0.67	NA
		RP083106-N3	Soil	8.0	NA	NA	NA	<0.021 U	<0.021 U	<0.021 U	<0.063 U	NA
		RP083106-N4	Soil	8.0	NA	NA	NA	<0.021 U	<0.021 U	<0.021 U	0.11	NA
	East Wall	RP082806-E1	Soil	8.0	NA	NA	NA	<0.020 U	<0.082 U	<0.082 U	<0.164 U	NA
		RP082806-E2	Soil	8.0	NA	NA	NA	<0.020 U	0.10	<0.068 U	<0.136 U	NA
	South Wall	RP082806-S1	Soil	11.5	NA	NA	NA	3.7	3,800 E	11	14.2	NA
		RP092306-1	Soil	8.0	NA	NA	NA	0.110	<0.046 U	<0.046 U	<0.092 U	NA
		RP092306-3	Soil	8.0	NA	NA	NA	0.12	530	0.13	0.15	NA
	Base	RP082806-B1	Soil	12.0	NA	NA	NA	0.065	150	<0.076 U	<0.152 U	NA
		RP082806-B2	Soil	11.0	NA	NA	NA	<0.020 U	0.47	<0.061 U	<0.122 U	NA
		RP082806-B3	Soil	12.0	NA	NA	NA	<0.020 U	4.7	<0.068 U	<0.136 U	NA
		RP082806-B4	Soil	12.0	NA	NA	NA	<0.020 U	0.16	<0.068 U	<0.136 U	NA
		RP092306-2	Soil	11.0	NA	NA	NA	<0.044 U	0.100	<0.044 U	<0.088 U	NA

Notes:

1. Interim cleanup levels represent EPA proposed preliminary remedial goals, or PRGs for the East Parcel for copper, and PCBs.

Interim cleanup levels for benzene, ethyl benzene, and xylenes are based on MTCA Method A residential soil cleanup levels.

The interim cleanup level for toluene was developed in general accordance with MTCA Method B cleanup level protocols to ensure that the soil cleanup criterion was protective of groundwater.

2. The GRO result is mainly attributed to a single peak (toluene).

Bold results exceed cleanup level.

Shaded cells indicate that the samples exceeded the interim cleanup level so additional soil was excavated.

GRO - NWTPH = gasoline range organics, northwest total petroleum hydrocarbons method

DRO - NWTPH = diesel range organics, northwest total petroleum hydrocarbons method

RRO - NWTPH = residual range organics, northwest total petroleum hydrocarbons method

PCBs = polychlorinated biphenyls

VOCs = volatile organic compounds

NA = not analyzed.

E = The value reported exceeds the quantitation range and is an estimate.

mg/kg = milligrams per kilogram

TABLE 6

EAST PARCEL DIRECT PUSH BORING SAMPLE ANALYTICAL RESULTS

Former Rhone-Poulenc East Marginal Way Facility

Tukwila, Washington

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Area of Investigation	Sample Location	Sample ID	Matrix	Depth (feet)	VOCs (mg/kg or mg/L)				Total Organic Carbon (%)
					Benzene	Toluene	Ethylbenzene	Xylene	
		Interim Cleanup Levels		" 0.03	0.83	--	--	--	
Former Maintenance Building and Storage Area - Deep Excavation	Direct Push Delineation Borings	RP082406-16 (GMX-1-4.0)	Soil	4.0	<1.1 U	440	<1.1 U	<2.2 U	0.358
		RP082406-17 (GMX-1-8.0)	Soil	8.0	<10 U	5,600	<10 U	<21 U	NA
		RP082406-12 (GMX-2-2.5)	Soil	2.5	<0.1 U	43	<0.1 U	<0.20 U	NA
		RP082406-13 (GMX-2-8.0)	Soil	8.0	<44 U	20,000	<44 U	<88 U	NA
		RP082406-15 (GMX-2A-8.0 (field duplicate))	Soil	8.0	<47 U	23,000	<47 U	<94 U	NA
		RP082406-09 (GMX-3-2.0)	Soil	2.0	<0.022 U	<0.022 U	<0.022 U	<0.044 U	NA
		RP082406-10 (GMX-3-5.5)	Soil	5.5	<0.022 U	<0.022 U	<0.022 U	<0.044 U	NA
		RP082406-05 (GMX-4-2.0)	Soil	2.0	<0.021 U	0.021	<0.021 U	<0.043 U	0.256
		RP082406-06 (GMX-4-4.0)	Soil	4.0	<0.020 U	1.5	<0.020 U	<0.040 U	NA
		RP082606-01 (GMX-6-13.0)	Soil	13.0	<0.014 U	<0.014 U	<0.014 U	<0.027 U	NA
		RP082606-03 (GMX-7-13.0)	Soil	13.0	<0.012 U	<0.012 U	<0.012 U	<0.025 U	NA
		RP082606-05 (GMX-8-9.0)	Soil	9.0	<2.8 U	1,600	<2.8 U	<5.7 U	NA
		RP082606-07 (GMX-10-9.0)	Soil	9.0	<0.033 U	<0.033 U	<0.033 U	<0.067 U	NA
		RP082406-18 (GMX-1)	Water	8 to 13	<0.250 U	32	<0.250 U	<0.250 U	NA
		RP082406-14 (GMX-2)	Water	8 to 13	<1 U	90	<1 U	<1 U	NA
		RP082406-11 (GMX-3)	Water	10 to 15	<0.001 U	<0.001 U	<0.001 U	<0.001 U	NA
		RP082406-07 (GMX-4)	Water	7 to 12	<0.001 U	0.0032	<0.001 U	<0.001 U	NA
		RP082406-03 (GMX-5)	Water	13 to 18	<0.050 U	4.1	<0.050 U	<0.050 U	NA
		RP082406-04 (GMX-5A (field duplicate))	Water	13 to 18	<0.050 U	3.6	<0.050 U	<0.050 U	NA
		RP082606-02 (GMX-6)	Water	11 to 16	<0.001 U	<0.001 U	<0.001 U	<0.001 U	NA
		RP082606-04 (GMX-7)	Water	11 to 16	<0.001 U	<0.001 U	<0.001 U	<0.001 U	NA
		RP082606-08 (GMX-10)	Water	11 to 16	<0.001 U	<0.001 U	<0.001 U	<0.001 U	NA

Notes:

1. Interim cleanup levels for benzene, ethyl benzene, and xylenes are based on MTCA Method A residential soil cleanup levels.

The interim cleanup level for toluene was developed in general accordance with MTCA Method B cleanup level protocols to ensure that the soil cleanup criterion was protective of groundwater.

Bold results exceed cleanup level.

Shaded cells indicate that the samples exceeded the interim cleanup level so additional soil was excavated.

VOCs = volatile organic compounds

NA = not analyzed.

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

TABLE 7

EAST PARCEL ASBESTOS AND OIL/WATER SEPARATOR ANALYTICAL RESULTS

Former Rhone-Poulenc East Marginal Way Facility
Tukwila, Washington

Area of Investigation	Sample Location	Date	Sample ID	Asbestos (%)	TPH - GRO (ppm)	TPH - DRO (ppm)	TPH - RRO (ppm)	PCBs (ppm)
			Interim Cleanup Levels ¹	--	30/100	2,000	2,000	1
Former Maintenance Area	Oil-Water Separator - Liquid	8/8/2006	FRP 080806	NA	<0.25 U	22	160	0.28
	Oil-Water Separator - Sediment	8/11/2006	FRP 081106 OWS	NA	NA	840	6,600	10
	Oil-Water Separator - Lining	8/9/2006	LINING-1	<1	NA	NA	NA	NA
	North Former Maintenance Area	8/7/2006	PIPE-1	9	NA	NA	NA	NA
	West Former Maintenance Area	8/9/2006	PIPE-2	27	NA	NA	NA	NA

Notes:

1. Interim cleanup levels represent EPA proposed preliminary remedial goals, or PRGs for the East Parcel for PCBs.

Interim cleanup levels for TPH-DRO, TPH-RRO, and TPH-GRO are based on MTCA Method A residential soil cleanup levels.

Bold results exceed cleanup level.

TPH = total petroleum hydrocarbons

GRO - NWTPH = gasoline range organics, northwest total petroleum hydrocarbons method

DRO - NWTPH = diesel range organics, northwest total petroleum hydrocarbons method

RRO - NWTPH = residual range organics, northwest total petroleum hydrocarbons method

PCBs = polychlorinated biphenyls

U = The compound was analyzed for, but was not detected ("non-detect") at or above the reporting limit.

NA = not analyzed

ppm = parts per million

mg/kg = milligrams per kilogram